David Noeth, KD8ACO
Ham Of The Year

This year's CARS Ham Of The Year (HOTY) award went to David, KD8ACO, for his numerous and enormous contributions to our club. The awards Committee considered several active members who gave much of their time and effort to CARS projects and activities, but David rose to the top of the class as the unanimous choice.

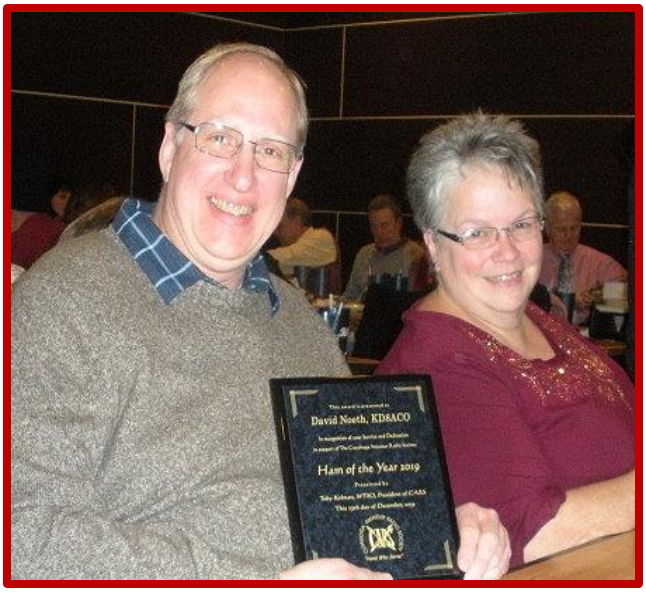
While most of us were shaking off the holidays, David was hard at work preparing for the winter licensing classes. He manages the classes single handedly from womb to tomb. He prepares all the study material, which every year includes a new question pool for one of the three classifications. He sets the schedule and writes up the detailed description of the schedule for the students and instructors. He oversees and coordinates the instructors and the VE team. The 2019 classes were a major success, bringing new Technicians into the hobby, while others upgraded to General and Extra thanks to David's efforts.

Meanwhile, David experimented with the EchoLink and ALLSTAR nodes for the CARS repeater while we helped with the controller programing and repeater site physical organization. His efforts panned out splendidly, our repeater system is one of the finest.

David attended Field Day and filled one of the biggest gaps we always have. He operated at during the evening and the wee hours of the night racking up contacts and points.

As summer wound down, an opportunity arose to have an additional licensing class for Technicians. David jumped at the idea and ran the classes at our picnic meeting venue, the Harriet Keeler pavilion. The result – four new hams, and four new CARS members.

Besides all that, David attends almost every meeting and club activity, and has been an outstanding Net Control Station for many years.



David happily accepted the coveted HOTY plaque.

Next CARS Meeting

Tuesday, January 14 - 7:30 PM

Busch Community Room
7501 Ridge Rd.
Parma, OH 44129
Program:
2 Meter Slot Antenna
Larry, N8OWS

Peep from the Veep
Mark, WJ8WM

January 2020

By now the wrapping paper is cleaned up and the visitors probably have left and you can finally sit down to play with the radio toys Santa brought you! Maybe you could consider making a presentation at a meeting about your new gift.

It is also a good time to consider where you have been and where you would like to go in amateur radio. I threw some ideas out a couple of years ago in this article. I reviewed them to see where I was. I haven't been as active as I would like to and that is disappointing. Just too busy, I guess.

For those new members, and those who might have missed them, here are a few ideas for 2020:

1. How about checking into the Wednesday evening net if you haven't, or if you are checking in regularly, try checking in every week to earn a certificate!
2. When you're comfortable on the net, consider being a net control operator.
3. Attend our monthly meeting or better yet, give a presentation at the meeting.
4. Go for a operating certificate or contest like WAS, WAC, or DX
5. Contact a Special Event station every month or better still participate in a special event.
6. Plan to actively participate in Field Day *weekend*.
7. Volunteer for one of the many committees that keep CARS functioning. We need a barrister for the meetings!

The point is, enjoy yourself on the radio in 2020!

From The Prez

New Year – New Direction

A member recently conveyed to me a disappointment he has with CARS. Thank heaven; finally some feedback! He said he isn't learning enough about ham radio, he joined the club to learn. I can't agree with him more. I am involved in another hobby and attended a meeting hoping to meet hands-on enthusiasts and learn from those with experience. The members of that club were only concerned with the social aspect of their club, fine for them-no good for me. That was my last meeting.

I want to give the above mentioned ham what he desires. I want to keep him as a member. He mentioned more technical programs, and wondered what happened to the additional discussion groups we talked about some time back. He also wanted to have hands on projects.

He refers to himself as a "newbe", but he has been a ham for years.

Let's do this. Let's get our club more technically orientated, and let's begin now.

It will take more than one or two people to make this happen. We will start by making this a main topic at the January meeting. So put this thought into your heads and rattle it around a bit. Come to the meeting with ideas and think about how you can contribute to make it happen. If it is going to happen, it must be a team effort.

Thanks Larry

We all owe Larry, N8OWS, a gigantic "Atta Boy" for a job well done as the CARS secretary for the last few years. Larry stepped up and took over when Dwaine, K8ME, became a Silent Key. Not only did he shoulder the responsibility for the remainder of Dwaine's term, he accepted nominations and was elected secretary two more times. As a past secretary, I can say it's no easy job. Not only did Larry do the job, he did it splendidly, month in, month out, year after year.

Get Off the Bench

We need more members to follow Larry's example and get into the game. There are certain tasks that must be done to keep an organization running. Some members do more than their share, we all thank you. Some members don't contribute. We need to balance things out a bit. Please help out if you possibly can. It will make CARS a better club, a club we can all be proud of.

73, Toby, WT8O

Dr. Jack Nilsson gave an outstanding presentation on his compact antennas. He went into depth explaining theory and design. Two examples were on display to the left.

Cuyahoga Amateur Radio Society
November 12th 2019 Business Meeting Minutes

The CARS membership was called to order by President Toby Kolman, WT8O, at 7:30 PM on the 12th day of the month at the Busch Community Room in Parma. The presentation this evening was by Dr. Jack Nilson, N8NDL, with the topic being the “Compactenna.”

The Pledge of Allegiance was said and introductions were made by the members and guests. The October 8th, 2019 Business meeting minutes were approved as they appeared in the November 2019 *Wobbly Oscillator*.

There were 28 members and guests in attendance this evening.

Bob, W8GC, gave the report on the treasury balance. Membership dues for 2020 are now being collected. ARRL membership renewals can also be paid through the club so see Bob for details. Bob also mentioned purchases on Amazon Smile return .5% back to the club.

The CARS Christmas party location has been changed. The new location is the Fuji Buffet, 1930 Snow Road in Parma. The buffet is located in the Midtown shopping plaza. The party begins at 6:00 PM.

Toby, WT8O, thanked all for the continued contributions to the *W.O.*

Toby mentioned the 2019 Field Day results and thanked everyone who participated.

- 7,868 points
- 1,955 QSO’s
- 4th in category 6A
- 4th in the Ohio Section

[Continued]

January Net Sked

JAN	1	WT8O
JAN	8	KD8OUE
JAN	15	N8OWS
JAN	22	AC8NW
JAN	29	K8RJH

Nets are run every Wednesday at 9:00 PM on 146.820 (Pl 110.9)

Toby also thanked the refreshment committee for their continued service to the club.

There were no additional nominations received for the 2020 Officers election. Therefore, the Election results are as follows.

Toby, WT8O - President.
Mark, WJ8WM - Vice President.
Bob, W8GC - Treasurer.
Ed, WB8ROK - Secretary.
Mike, KD8OUE - Even Year Board member.
Terry, KB8DTC - Even Year Board member.
Joel, K8SHB - Even Year Board member.
Ron, K8RJH – will be the alternate club secretary.

The membership was riveted to Dr. Jack's presentation. Some said it was the best program we ever had.

Larry, N8OWS, had nothing to report.

There were no Public Service items to discuss.

The Tech Committee is continuing the testing of the EchoLink program.

The Club welcomed the following NEW CARS members.

Adam Goler – KM6PHD
Sonia Cortes – KE8NEL
Kevin Bojarski – KE8NEM
Jeff Gorman – KE8NEN
David Hamlin – KE8NEO
Dave Runion Jr. – KE8NJV

There was no 50/50 raffle this evening.

Andy, KD8SCV, will be the NEW 50/50 raffle manager in 2020.

Toby would like to see someone step up and handle the coffee preparation for the meetings. The position is currently vacant.

The meeting was adjourned at 7:55 PM.

Submitted by Larry Shimerka, N8OWS.

January Birthdays

Alex Howe, KE8MQH	**1/2**
Jane Reed, K8JGR	**1/11**
Gary Schmid, WA8GCR	**1/11/47**
Jody Shankland, KE8JV	**1/14/70**
Matt Webb, W8EBB	**1/14/84**
Fred Doob, K8PP	**1/15**
Adam Goler, KM6PHD	**1/18/87**
Steve Jones, N8SRJ	**1/23/66**
Mike Toth, KB8RKF	**1/27/50**
Carl Beduhn, K8AV	**1/30/38**
Tony Thomas, KC8TJF	**1/31/56**
Dayne Wade, KE8KYG	**1/31/77**

CARS 2019 Christmas Party
Andy, KD8SCV

Despite a last-minute venue change, 37 members and guests attended this year's CARS Christmas Party, enjoying good company and good food at the Fuji Grill & Buffet in Parma. Among the guests, we counted some new CARS members:Keven Bojarski, KE8NEM; Sonia Cortes, KE8NEL; John Dernar, KE8MAI, and his wife (XYL), Helen. It's always great to see new faces in the club!

Everyone who attended the Christmas party at Fuji's had one fine time.

Besides the good food, including a delicious Casada cake, courtesy of Colazzo's bakery, guests participated in a CARS-sponsored drawing, a 50/50 raffle, and bingo (courtesy of Joel Chaney, K8SHB). Kim Smith, XYL of Scott Smith, AC8NW, was the lucky winner of the 50/50 raffle while six other guests won gift cards from the drawing.

As he has done in past years, CARS club president, Toby Kolman, WT8O, fulfilled the role of emcee superbly. Toby recognized several members for their service to the club and to amateur radio. He reports on them elsewhere in this issue of the *W.O.*

Again, I offer my thanks to fellow CARS Christmas Party committee members Mark Moro, WJ8WM, and Arp Viiberg, K8ARP, for their help in planning this year's event, especially with the last-minute venue change.

Mucho thanks to Andy, Arp, and Mark for putting the whole shebang together for the rest of us to enjoy

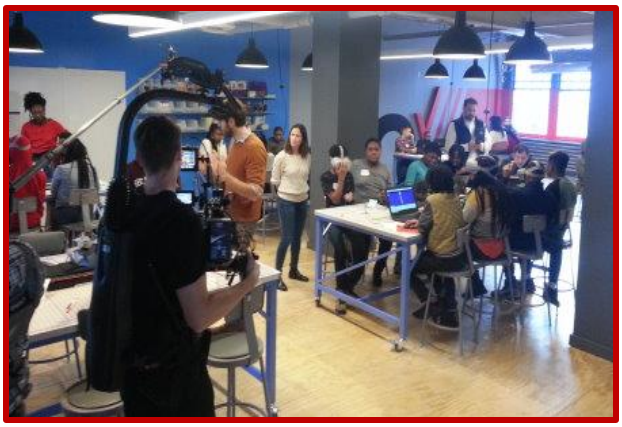
Happy New Year to all CARS members and their families

Andy Evridge KD8SCV
Christmas Party Committee Chairman

Need a New Year's Resolution?
Consider STEM Outreach to our Schools!
Ron, K8RJH

It may not be surprising to many of our club members, reaching out to our community youth as a mentor at an age when impressions are set and interest is generated, can greatly influence a young individual for life. This can foster both a lifelong career path and guide our youth for being responsible citizens. Amateur Radio is one element of knowledge that can appeal to interested youth as a step in furthering their education. It may be as simple as being available in an education setting to show Amateur Radio in action and create the "*fascination*" of learning something new.

This year I have set a personal New Year's Resolution goal for actively promoting Amateur Radio in a new STEM (Science, Technology Engineering and Math) Lab(s) environment, one being recently built in a Cleveland Middle School where I work at the Breakthrough District as the Engineering Director. This STEM activity is voluntary for me and has already added insights and knowledge to my experience of the new technologies used and taught to our students.



STEM Workshop in Session

Almost all of the private and public school districts have STEM programs and it may be just as simple as asking to be a volunteer or a coach with your local middle or high school to actively get involved. In addition, you being a licensed Amateur have a unique value as a volunteer from a technical understanding and background to assist the teachers and Coaches with a STEM curriculum. Of course, demonstrating the "magic" of an Amateur Radio contact can spark the interest of many in a young group!

Volunteer Coaches assisting STEM Students

One may find that each school district that does have a STEM program can be in different stages of use and development. Several high schools in the Cleveland area do have an active student amateur radio club. No matter what level the middle and high schools are in the STEM program, one can check out the requirements to become a volunteer and or a presenter for Amateur Radio directly with the schools.

Lab Background and Summary,

The Breakthrough Schools facility was created as part of a generous grant from Verizon Wireless and is the first Advanced Educational training site of its kind in the USA. Additionally, Breakthrough Schools of Cleveland has made national news being the first school served with 5G Wireless, with the latest (and "beta") classroom educational IOT devices being used by students for evaluation. This progressive STEM Lab will also be hosting numerous training functions for many North American educators throughout this coming year.

As it has been only operational for just a few months starting this Fall, the STEM Lab has hosted many Intra-District STEM programs and competitions. These programs include of Coding (Programming) contests, Robotics, 3-D printing, Immersive Reality, Virtual Reality and 3D Distance Learning for elementary and middle school students. Not to mention that module and learning kits using the Raspberry-Pi through Intel Processor boards are available for student problem study. The young scholars have been very creative and are always amazing the coaches in their problem solving abilities! Not surprisingly, the Lab Coaches are challenged in adding additional value programs for the upcoming school year. Amateur Radio can be an active topic of learning as well as a communication skill for their future!

In assisting in the design, construction and now volunteering in this Lab with several STEM programs, I have had the unique experience to learn about the 5G wireless deployment, using the newest, latest (and prototype) technology wireless devices, and developing presentation skills in quickly mastering the "New World" of technology. It has been well worth my time in growing my professional experience.

STEM Labs have evolved from the "computer labs" that were popular in the 1990's. Once an array workstations in cubicles, STEM Labs are now open workspaces allowing movements of students and their collaboration to study a project. Devices that were hosting the processing and presenting the results are being replaced by cloud based edge interfaces, with far greater speed and features.

Being an active volunteer in the STEM Lab has opened me to an appreciation of what the next generation will be using for their livelihood and a chance to demonstrate our Radio Service capabilities and future to our youth.

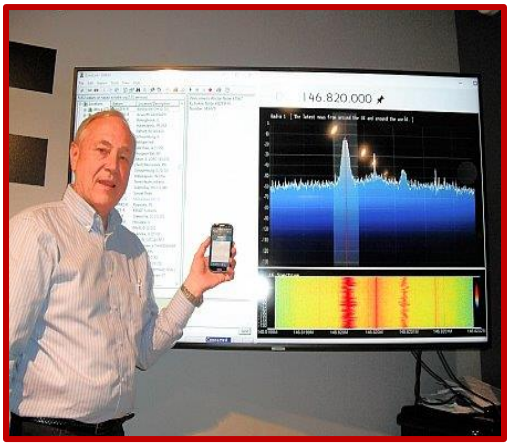
I am looking for volunteer support in the Ham community to assist in demonstrating and using the Amateur Radio service to our young scholars through this or other local STEM Lab schools. Their natural curiosity would result in training and licensing interested individuals in the Amateur Radio Service.

Then a goal for the student (or individual) would have accomplished certification in a STEM subject and a certified resume item for their application towards advanced and/or higher education.

And then…, a bright future is ahead.
STEM Outreach… A good idea for a New Year's Resolution!
For Additional Information, Contact Ron Hollas – K8RJH at: ron@hollas.co

Useful Links:
ARRL http://www.arrl.org/recruiting-outreach
Verizon VILS Digital Promise https://verizon.digitalpromise.org/

Student Briefing on STEM Topics [Left}



K8RJH Connected to K8ZFR-R via EchoLink with SDR-Dongle Receive Demo. [Right]

November Sweeps
Toby, WT8O

The ARRL November Sweepstakes is one of the most popular radio contests of the year, second only to Field Day. It is run on two separate weekends in November, one for CW, and one for SSB. Metro, W8MET, sent me a copy of his impressive log wanting me to let members know it is an easy way to achieve the Worked All States (WAS) award. Many of you know he has quite an impressive station, complete with a tower, a SteppIR beam, and a legal limit amplifier.

That doesn't mean you can't Work All States with a modest set-up. Although I was moving into my new QTH this fall and my station was not operational for the Sweeps, I have worked the contest many times over the years, and have usually Worked All States with 100 watts and a dipole.

So next year, think seriously about doing the ARRL November Sweepstakes and having a darn good chance to add some wallpaper to your shack.

WT8O installing triband antenna at new QTH

CARS Repeaters

146.820 PL Tone 110.9
Main Site – Brecksville
Receive Only Site – Brunswick
Receive Only Site – Shaker Hts.
****

443.825 PL Tone 131.8
Digital Yaesu Fusion
Linked to 146.82 Repeater
Brecksville
****

444.75 Receive PL Tone 131.8
449.75 Transmit
Stand-alone Not Linked
Shaker Hts.

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC
Elected 2/10/15

Thomas Wayne, WB8N
Elected 1/10/17

Dwaine Modock, K8ME, SK
Elected 5/9/17

Toby Kolman, WT8O
Elected 10/10/17

Jerry Smith, NW9H
Elected 5/8/18

Ron Borkey, K8VJG
Elected 5/14/19

VE Session

The CARS November VE session brought a new ham into the Amateur Radio Service. Dave Runion, KE8NJV, passed his Technician exam becoming a licensed amateur and a CARS member. We welcome Dave into the ham radio hobby and CARS. Robert Rohde, K8SKN, passed the General exam and upgraded from Technician. Congratulations to both hams.

Special thanks to our outstanding VE team, capably led by Metro, W8MET, and consisting of Gary, NI8Z; Joel, K8SHB; Larry, N8OWS; George, K8KR; and Darren, K8DMT.

The next VE testing session will be held Sunday, January 12th, at 9:00 AM, at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131. Directions and a map are on the CARS website homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net As always, walk-ins are welcome.

The awesome CARS VE team

Taking the exams

Club Dues Notice
Bob, W8GC

Thank you all who have already paid you CARS dues for 2020.

Dues can be paid in 3 ways, online by sending the funds via PayPal to w8gc@2cars.org *PLEASE USE PERSONAL OPTION*, you can also mail a check to:
CARS,
7395 Brecksville Rd.
Independence, OH 44131

or pay in person at any CARS meeting. Dues are $26.00 per year for regular membership. Each additional family member is $16.00. If you are 60 yrs or older your dues are only $18.00 per year. *CARS will offer assistance to anyone having a hardship. Please let me know if you have a hardship or know a member who needs help.*

73, Bob, W8GC
216-524-1750

Radiosport

Contests

Jan. 4, 1800 – 2359 **ARRL Kids Day** 3.5, 7, 14, 18, 21, 28, 144 repeaters Ph www.arrl.org/kids-day
Exchange: Name, age, QTH, favorite color

Jan. 4, 1800 – Jan. 5, 2359 **ARRL RTTY Roundup** 3.5 – 28 Dig www.arrl.org/rtty-roundup
Exchange: W/VE: RST, SP (State, Province); non-W/VE: RST, serial

Jan. 18, 1900 – Jan. 20, 0359 **ARRL VHF Contest** 50 and up CW Ph Dig www.arrl.org/january-vhf
Exchange: 4-char grid square

Jan. 25, 1900 – Jan. 26, 1900 **Winter Field Day** All (no WARC0) CW Ph Dig www.winterfieldday.com
Exchange: Category, ARRL Section or "DX"

Special Events Stations

Jan. 11, 1700 – 2359 **NI6IW** San Diego, CA USS Midway (CV-41) Museum Ship **Dessert Storm Kickoff**
14.320 7.250 PSK31 14.070 DSTAR REF001C QSL USS Midway Museum Ship COMEDTRA,
910 N. Harbor Dr., San Diego, CA 92101

Jan. 18, 1600 – 2100 **K7T** Tucson, AZ **Tonto National Monument** CW 14.040 7.040; SSB 14.250;
FT8 18.100 Certificate www.qsl@tucsonhamradio.org

QSO Parties

Jan. 11, 1800 – Jan. 12, 0559 **North American QSO Party, CW** 1.8-28 CW www.ncjweb.com
Exchange: Name, state/DC/province/country

Jan. 18, 1800 – Jan. 19, 0559 **North American QSO Party, SSB** 1.8-28 PH www.ncjweb.com
Exchange: Name, state/DC/province/country

Sampling from January 2020, *QST* - Pg. 81 and 83. See *QST* for many more events.
All times in GMT ZULU time

The *Wobbly Oscillator* is a publication of the Cuyahoga Amateur Radio Society, P.O. Box 31264, Independence, Ohio, 44131-0264. Articles from this publication may be reprinted in any ham radio publication, provided that credit is given to this publication and the author, if known. All submissions should be emailed to: wt8o@att.net by the end of the month for publication in the next month's issue.

CARS 2020 Officers & Committees

Audit
WJ8WM ** WT8O, KD8OUE

Audio/Video
AC8NW **

ARRL Liaison
WJ8WM **

Awards
W8GC ** WT8O

Christmas party & Summer Picnic
KD8SCV **, WJ8WM, K8ARP

Club Photographer
N8OWS **

Field Day
WT8O **, WJ8WM, K8RGI, K8ARP, KD8SCV, AC8NW, AC8TN, K8RJH, N8BBB food

50/50
KD8SCV

License classes
KD8ACO **, WT8O, K8SHB

Media Representative
KD8SCV

Membership
WT8O ** KE8IHP

NET
WT8O **

Newsletter
WT8O ** 440-525-6109
wt8o@att.net

Programs at Meetings
KD8QBB ** KD8BAL

Property Custodian's
KB8DTC records, W8GC equipment

Public Services
K8ARP ** KD8FTS

QSL Manager - W8HBI, W8BM
WB8N **

Refreshments at Meetings & Picnic
KD8SCV ** pop, AI8Y ** coffee, NW8X ** Donuts

Scholarship
W8GC ** WJ8WM, KD8SCV, WB8ROK, WB8N

Sunshine (welfare)
Andy, KD8SCV ** 440-886-0723

Technical
AC8NW ** N8OVW, WJ8WM, KD8ACO, KD8RKF, K8MD, KB8DTC

VE Exams
Metro, W8MET ** 216-520-1320

Web Master/e-mail
W8GC **

** chairman or co-chairman

2020 Officers

PRESIDENT
Toby Kolman WT8O 440-525-6109
wt8o@att.net

VICE-PRESIDENT
Mark Moro, WJ8WM 216-661-0342

SECRETARY
Ed Stevens, WB8ROK 216-267-5473
Alternate Secretary:

TREASURER:
Bob Check W8GC 216-524-1750
Alternate Treasurer: Bob Robbins, K8RGI

Board Members & License Trustees

Board Chairman
Andy Evridge KD8SCV 440-886-0723
Alternate Chairman: Mike Kemmett, KD8OUE

even year executive board 2 year term
K8SHB, KB8DTC, KD8OUE

odd year executive board 2 year term
KD8SCV, K8ARP, K8RJH

License trustee K8ZFR
WT8O

License trustee
W8HBI, W8BM,
W8GC

November 13, 2019

Sign up now for CARS 2020 Winter Ham Radio classes, get your Technician, General or Extra class license!

Thursday evenings starting February 20, 2020
and ending April 2, 2020 at 6:30 pm

April 2nd will be a special VE Test session for all license classes,
ARRL fee for this VE test is $15.00

To register please follow the link at www.2cars.org and complete the on-line application or call 216-932-8005 Dave, KD8ACO

Classes will be held at the Seven Hills City Hall, 7325 Summit View Dr Seven Hills, OH 44131 in room "C" at 6:30 pm every Thursday. The entrance is at the East end on the South side of building

class fees: Technician $25.00, all who pass get a free CARS membership for 2020, General and Extra $20.00 non members or Extra is *$15.00 CARS members*, General class ONLY is FREE to CARS members
All class materials are provided